

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A data conversion system, comprising: including

a terminal device belonging to a first communication network[[,]];

a server device belonging to a second communication network having a protocol different from that of said first communication network; [[and]]

a protocol conversion device provided at a connection point between said first communication network and said second communication network for conducting protocol conversion;;
~~comprising:~~

a storage unit which stores constraint information peculiar to said terminal device added to a request from said terminal device for obtaining contents from said server device;
and

a data conversion unit which converts said means for receiving constraint information peculiar to said terminal device added to a request from said terminal device for obtaining predetermined contents from said server device and converting

~~predetermined~~ contents obtained from said server device into data based on said constraint information stored in said storage unit,
wherein said data conversion unit determines whether
conversion to contents supported by said terminal device is
necessary and whether conversion of said contents is possible,
when conversion of said contents is necessary but
conversion to the contents supported by said terminal device is
impossible, said data conversion unit deletes said contents,
when conversion of said contents is necessary and
conversion to the contents supported by said terminal device is
possible, said data conversion unit converts said contents to
converted contents supported by said terminal device,
said data conversion unit determines whether one of the
converted contents and said contents are image data,
when said one of said contents and said converted
contents are not image data, said data conversion unit returns
said one of said contents and said converted contents to said
protocol conversion device without further conversion,
when said one of said contents and said converted
contents are image data, said data conversion unit determines
whether said constraint information exists in said storage unit,
when said constraint information exists, said data
conversion unit converts said one of said contents and said
converted contents to converted image contents based on said

constraint information and returns said converted image contents to said protocol conversion device,

when no constraint information exists, said data conversion unit returns said one of said contents and said converted contents to said protocol conversion device without conversion based on said constraint information.

2. (canceled)

3. (currently amended) The data conversion system as set forth in claim 1, wherein

said data conversion ~~means~~ unit is provided at said protocol conversion device.

4. (canceled)

5. (currently amended) The data conversion system as set forth in claim 1, wherein

said protocol conversion device includes[[:]] said data conversion ~~means~~ unit and said storage ~~means~~ unit ~~for storing said constraint information from said terminal device,~~

~~said data conversion means converting predetermined contents obtained from said server device based on said constraint information stored in said storage means.~~

6. (currently amended) The data conversion system as set forth in claim 1, wherein

said data conversion ~~means~~ unit is provided at said server device.

7. (currently amended) The data conversion system as set forth in claim 1, wherein

said protocol conversion device transmits said request received from said terminal device and said constraint information added to said request to said server device, and

~~said server device includes storage means for storing said constraint information from said protocol conversion device and said~~ server device include data conversion means for converting said predetermined contents based on said constraint information stored in said storage means unit and said data conversion unit.

8. (original) The data conversion system as set forth in claim 1, wherein

said constraint information includes at least one of size information of images and gradation information of images.

9. (original) The data conversion system as set forth in claim 1, wherein

said first communication network is a communication network for portable information terminals and said second communication network is the Internet.

10. (currently amended) A data conversion method in a data conversion system including a terminal device belonging to a first communication network, a server device belonging to a second communication network having a protocol different from that of said first communication network and a protocol conversion device

provided at a connection point between said first communication network and said second communication network for conducting protocol conversion, comprising the steps of:

~~adding constraint information peculiar to said terminal device to a request from said terminal device for obtaining predetermined contents from said server device and transmitting the obtained request to said protocol conversion device, and~~

~~receiving said constraint information from said terminal device to convert predetermined contents obtained from said server device into data based on said constraint information~~

storing constraint information peculiar to said terminal device added to a request from said terminal device for obtaining contents from said server device;

determining whether conversion to contents supported by said terminal device of said contents obtained from said server device is necessary and whether conversion of said contents is possible;

deleting said contents, when conversion of said contents is necessary, but conversion to the contents supported by said terminal device is impossible;

converting the contents supported by said terminal device to converted contents, when conversion of said contents is necessary and conversion to the contents supported by said terminal device is possible;

determining whether one of the converted contents and said contents are image data;

returning said one of said contents and said converted contents to said protocol conversion device without conversion based on said constraint information, when said one of said contents and said converted contents are not image data;

determining whether said constraint information exists in said storage unit, when said one of said contents and said converted contents are image data;

converting said one of said contents and said converted contents based on said constraint information to converted image contents and returning said converted image contents to said protocol conversion device, when said constraint information exists; and

returning said one of said contents and said converted contents to said protocol conversion device without conversion based on said constraint information, when no constraint information exists.

11. (canceled)

12. (original) The data conversion method as set forth in claim 10, wherein

said constraint information includes at least one of size information of images and gradation information of images.

13. (original) The data conversion method as set forth in claim 10, wherein

said first communication network is a communication network for portable information terminals and said second communication network is the Internet.

14. (currently amended) A computer readable memory which stores a data conversion program for executing data conversion in a data conversion system including a terminal device belonging to a first communication network, a server device belonging to a second communication network having a protocol different from that of said first communication network and a protocol conversion device provided at a connection point between said first communication network and said second communication network for conducting protocol conversion,

said data conversion program comprising the ~~steps~~
functions of:

storing constraint information peculiar to said terminal device added to a request from said terminal device for obtaining contents from said server device;

determining whether conversion to contents supported by said terminal device of said contents obtained from said server device is necessary and whether conversion of said contents is possible;

deleting said contents, when conversion of said contents is necessary, but conversion to the contents supported by said terminal device is impossible;

converting the contents supported by said terminal device to converted contents, when conversion of said contents is necessary and conversion to the contents supported by said terminal device is possible;

determining whether one of the converted contents and said contents are image data;

returning said one of said contents and said converted contents to said protocol conversion device without conversion based on said constraint information, when said one of said contents and said converted contents are not image data;

determining whether said constraint information exists in said storage unit, when said one of said contents and said converted contents are image data;

converting said one of said contents and said converted contents based on said constraint information to converted image contents and returning said converted image contents to said protocol conversion device, when said constraint information exists; and

returning said one of said contents and said converted contents to said protocol conversion device without conversion based on said constraint information, when no constraint information exists

~~adding constraint information peculiar to said terminal device to a request from said terminal device for obtaining~~

~~predetermined contents from said server device and transmitting
the obtained request to said protocol conversion device, and
receiving said constraint information from said
terminal device to convert predetermined contents obtained from
said server device into data based on said constraint
information.~~

15. (canceled)

16. (original) The computer readable memory which
stores a data conversion program as set forth in claim 14,
wherein

said constraint information includes at least one of
size information of images and gradation information of images.

17. (original) The computer readable memory which
stores a data conversion program as set forth in claim 14,
wherein

said first communication network is a communication
network for portable information terminals and said second
communication network is the Internet.

18-25. (canceled)